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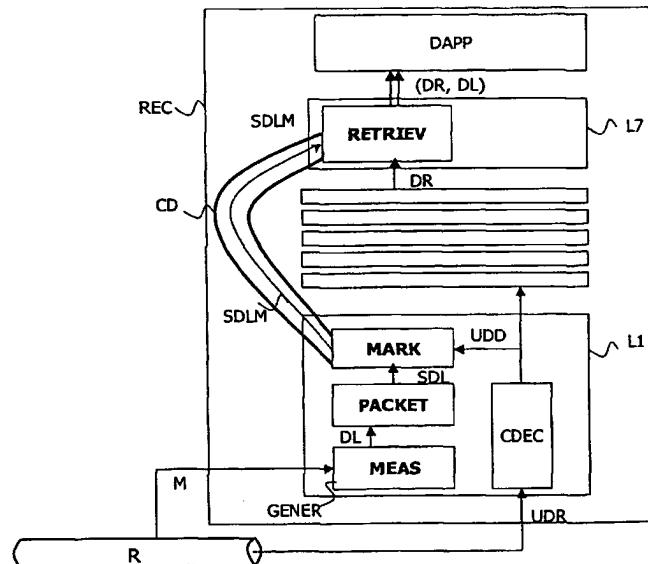
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(54) Title: RECEIVER, TRANSMITTER, METHOD AND SYSTEMS FOR PROCESSING A NETWORK DATA UNIT IN THE NETWORK STACK



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(57) Abstract: The invention relates to a receiver (REC) comprising means for using a network stack (PR) intended to process a data unit (UDR) received via a network (R), means for establishing a direct connection (CD) between a departure layer (L₁) and an arrival layer (L₇) of said network stack, means (GENER) for generating local data (DL) at the level of said departure layer (L₁), said local data (DL) being intended to be transmitted to said arrival layer (L₇) via said direct connection (CD), means (PACKET) for packeting said local data (DL) into a data structure (SDL), and means (RETRIEV) for retrieving said local data (DL) at the level of said arrival layer (L₇).



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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 226 680 B1 (BLIGHTMAN STEPHEN E J ET AL) 1 May 2001 (2001-05-01) abstract column 1, line 30 -column 4, line 3 column 5, line 1 - line 47; figures 1,2 column 6, line 56 -column 8, line 12; figures 4A,4B,4C column 8, line 31 - line 47; figure 5 column 9, line 19 -column 10, line 17; figures 6,7 column 14, line 1 -column 15, line 61; figures 10-12 -/- -	1-11

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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 246 683 B1 (CONNERY GLENN WILLIAM ET AL) 12 June 2001 (2001-06-12) cited in the application abstract page 3, line 54 -page 7, line 64; claims 1,2,10,11; figures 1-5	1-11
A	CARTER J ET AL: "DAFS-Enabled Data Center Applications" DAFS COLLABORATIVE, December 2000 (2000-12), XP002237620 Retrieved from the Internet: <URL: http://www.dafscollaborative.org/pres/s/articles/datacenter.pdf > 'retrieved on 2003-04-08! the whole document'	1-11

INTERNATIONAL SEARCH REPORT

 International application No
 PCT/IB 03/04832

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6226680	B1	01-05-2001	US	2002147839 A1	10-10-2002
			US	6389479 B1	14-05-2002
			US	2004030745 A1	12-02-2004
			US	6247060 B1	12-06-2001
			US	6427173 B1	30-07-2002
			US	6427171 B1	30-07-2002
			US	2001023460 A1	20-09-2001
			US	2001047433 A1	29-11-2001
			US	2001027496 A1	04-10-2001
			US	2001021949 A1	13-09-2001
			US	2002091844 A1	11-07-2002
			US	2002087732 A1	04-07-2002
			US	2002095519 A1	18-07-2002
			US	2002161919 A1	31-10-2002
			US	2001036196 A1	01-11-2001
			US	2001037397 A1	01-11-2001
			US	2001037406 A1	01-11-2001
US 6246683	B1	12-06-2001		NONE	